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(54) **CHAT APPLICATION FOR VIDEO GAME MACHINE**

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(52) **U.S. Cl.** **725/97**; 725/86; 725/96; 709/204; 709/203; 363/1; 363/42; 363/43

(58) **Field of Search** 709/204, 203; 725/86, 96, 97; 363/1, 42, 43

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,586,937 A * 12/1996 Menashe 463/41
5,689,641 A 11/1997 Ludwig et al. 395/200.02
5,758,079 A 5/1998 Ludwig et al. 395/200.34
5,796,393 A 8/1998 MacNaughton et al. 345/329
5,802,294 A 9/1998 Ludwig et al. 395/200.34
5,854,893 A 12/1998 Ludwig et al. 395/200.34
5,867,654 A 2/1999 Ludwig et al. 395/200.34
5,896,500 A 4/1999 Ludwig et al. 395/200.34
5,915,091 A 6/1999 Ludwig et al. 395/200.34
6,012,984 A * 1/2000 Roseman 463/42
6,050,898 A * 4/2000 Vange et al. 463/42
6,203,433 B1 * 3/2001 Kume 463/42
6,241,612 B1 * 6/2001 Heredia 463/42

FOREIGN PATENT DOCUMENTS

JP 7-135530 5/1995

JP 08-163524 6/1996
JP 8-256145 10/1996
JP 08-297637 11/1996
JP 9-81489 3/1997
JP 2002-157206 5/2002
WO 98/20410 5/1998
WO 00/52887 9/2000

OTHER PUBLICATIONS

Gall et al., "Promondia: A Java-Based Framework for Real-Time Group Communication in the Web", Computer Networks and ISND Systems, vol. 29, No. 8-13, 1997, pp. 917-926.

"Easy Communication is All the Rage. Go with Instant Message!," Internet Magazine, Impress Corp., No. 58, pp. 206-221 Nov. 1, 1999, together with a partial English language translation of the same.

Makino et al., "Up-to-date Situation: Cool Internet Life," Mac Fan Internet, Mainichi Communications Inc., vol. 3, No. 12, pp. 22-31, Dec. 1, 1998, together with a partial English language translation of the same.

English Language Abstract of JP 9-81489, Published Mar. 28, 1997.

English Language Abstract of JP 2002-157206, Published May 31, 2002.

* cited by examiner

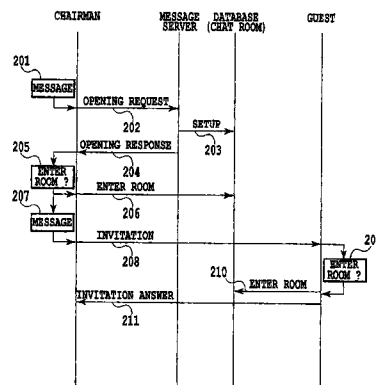
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(57) **ABSTRACT**

The present invention allows users to open and join a chat by means of a simple procedure from a video game machine, the present invention includes creating an opening message for opening an electronic conference and creating an opening request signal for setting an area in a database, based on the opening message. Also included is transmitting the opening request signal to the database and creating an invitation message prompting particular users to join the electronic conference, based on the opening message. Finally, the present invention further includes transmitting the invitation signal to the particular users.

34 Claims, 9 Drawing Sheets



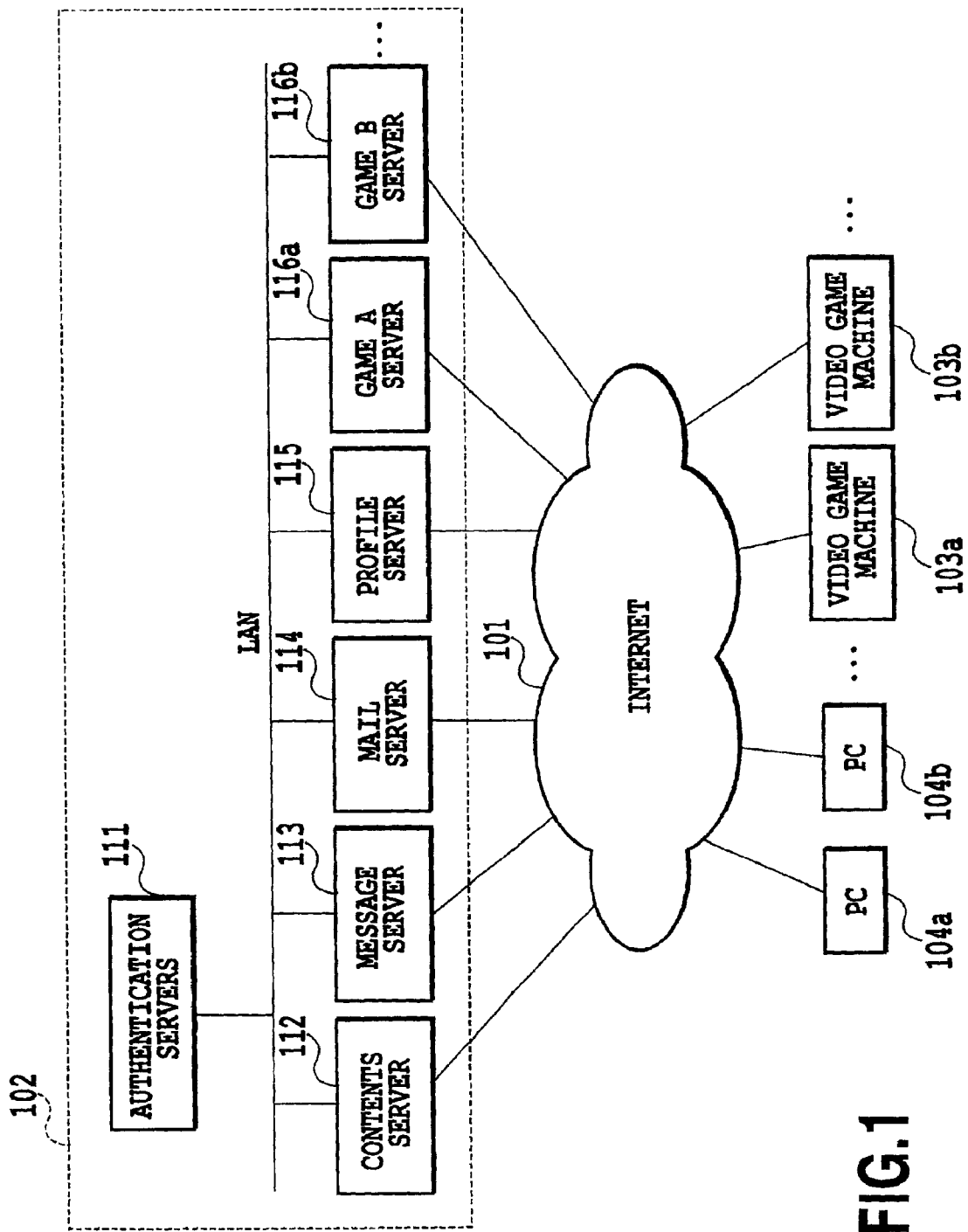


FIG.1

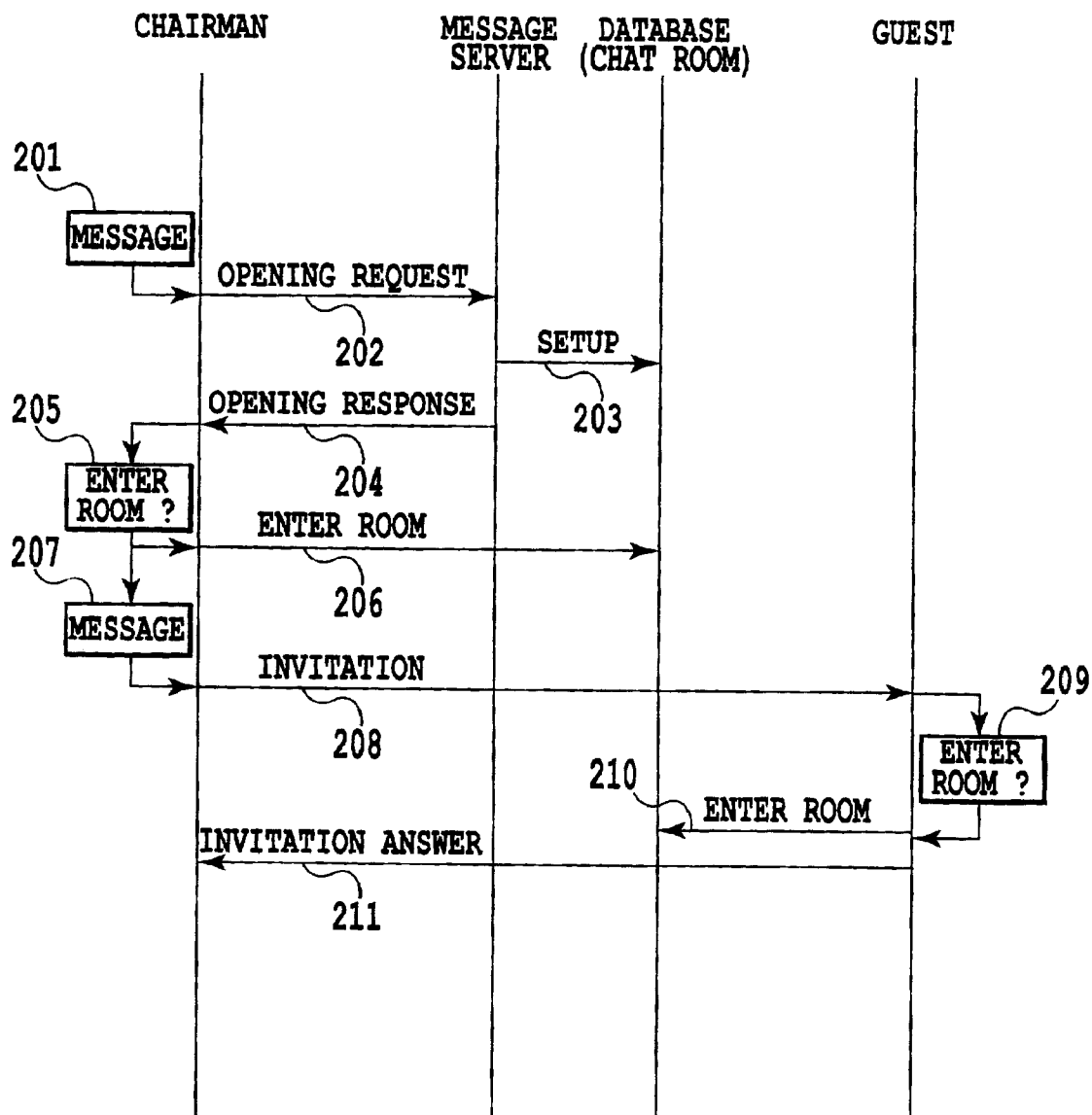


FIG.2

201

Send Message

To

From

L1

Message

Chat

Friends

Schedule

Files

R1

301

LET'S CHAT!

302

Title

MESSAGE TITLE

 000/000/00

303

TEXT BOX

304

Chat Name

A B C

305

Chat Password

* * * *

FIG.3

HEADER		
USER NAME		401
USER ID		402
USER PASSWORD		403
COMMAND	CHAT OPENING REQUEST	411
CHAT NAME	A B C	412
CHAT PASSWORD	* * * *	113

FIG.4A

204

HEADER	
USER NAME	
USER ID	
RESPONSE	CHAT OPENING RESPONSE
CHAT NAME	A B C
CHAT PASSWORD	* * * *
CHAT ID	####-##
MESSAGE	
XX	
XXX	
:	:

FIG.4B

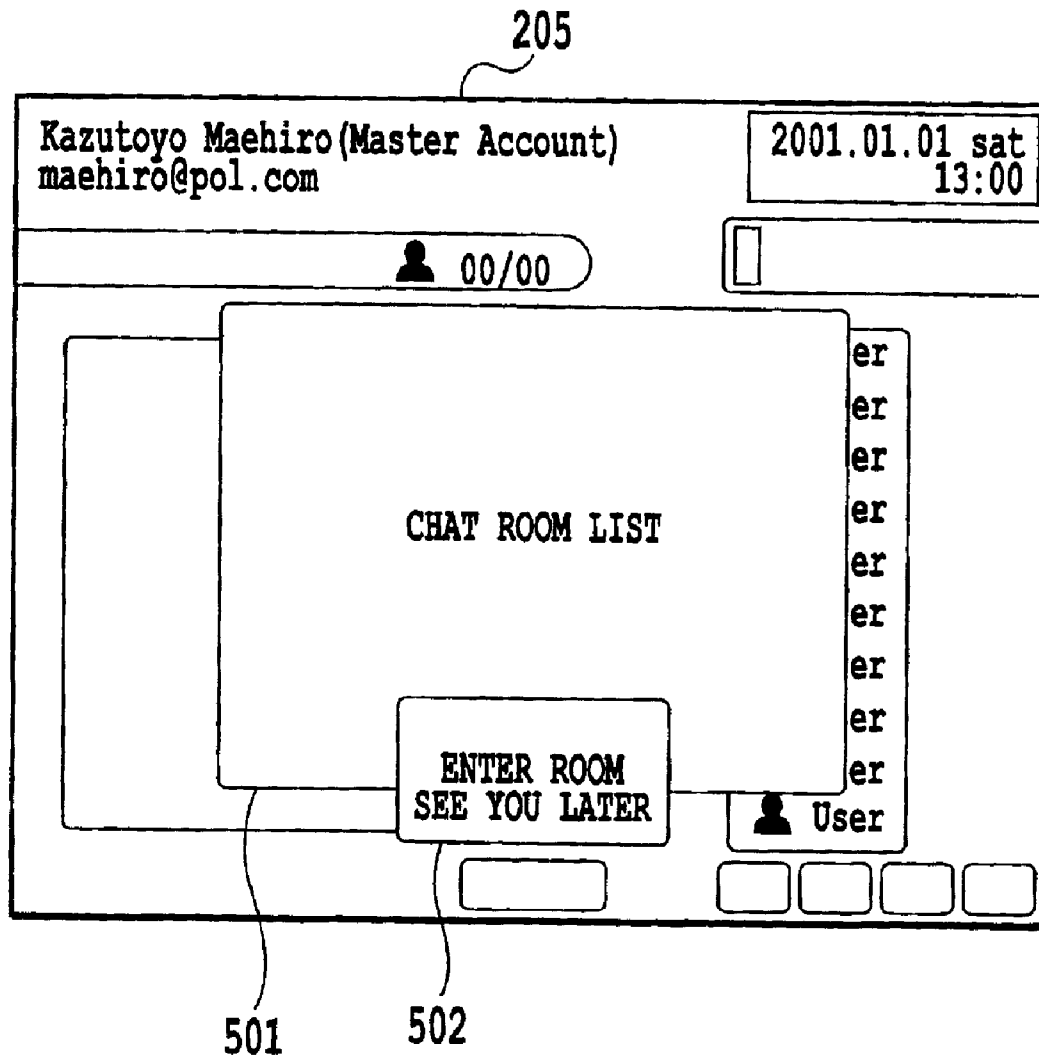


FIG.5

206,210

HEADER		
USER NAME		401
USER ID		402
USER PASSWORD		403
COMMAND	ENTER ROOM	601
CHAT NAME	A B C	412
CHAT PASSWORD	* * * *	413
CHAT ID	####-##	422

FIG.6

207

Send Message

○ ○ ○ ○ | ○ ○ ○ ○

To From

301

L1

Message

Chat

Friends

Schedule

Files

R1

LET'S CHAT!

701

ZONE

 00/00

302

ROOM NAME

ABC

302

Title

MESSAGE TITLE

303

TEXT BOX

FIG.7

208

HEADER	
USER NAME	
USER ID	
COMMAND	INVITATION
CHAT NAME	A B C
CHAT PASSWORD	* * * *
CHAT ID	####-##
MESSAGE	
TITLE	
×××	
⋮	⋮

FIG.8

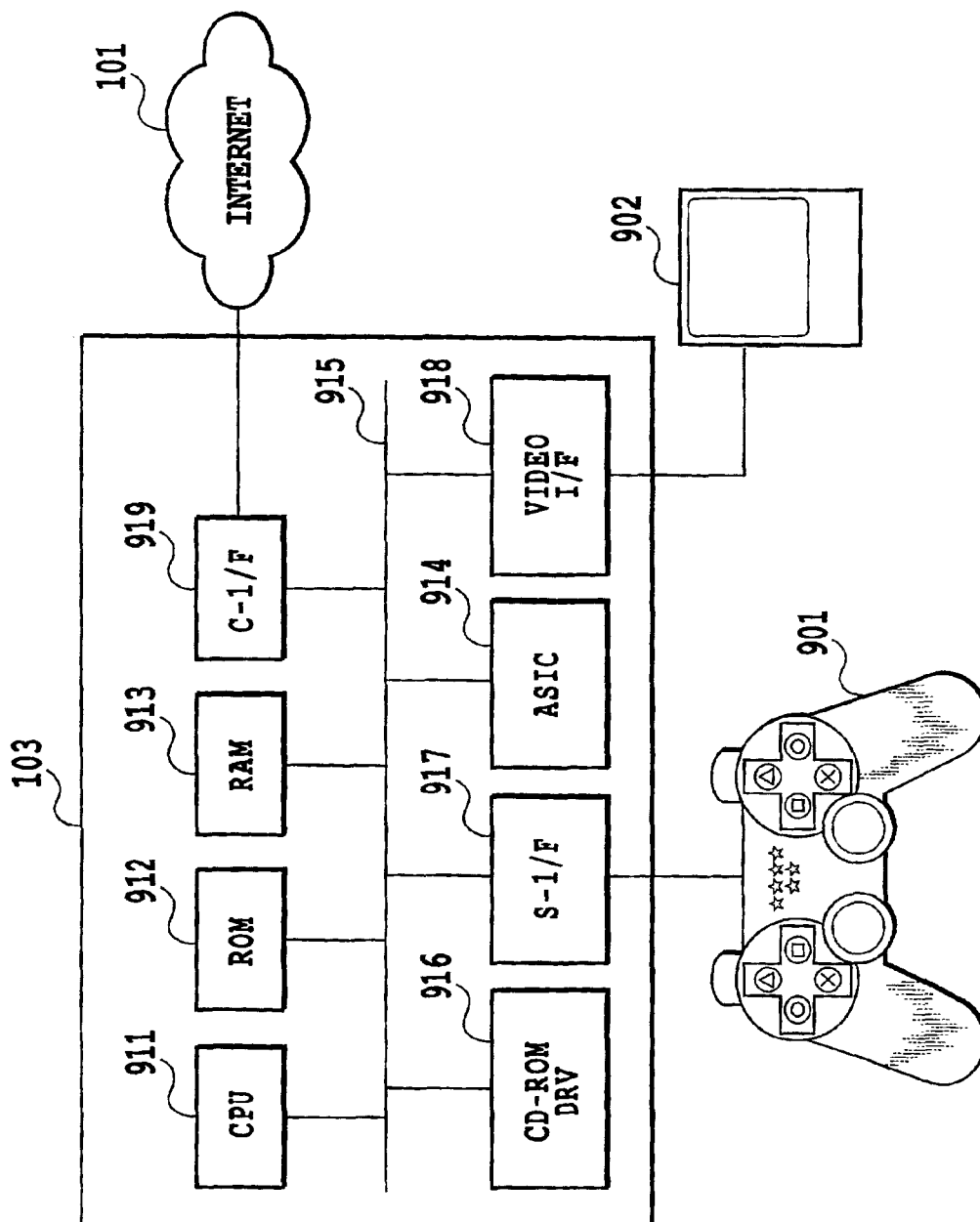


FIG.9

CHAT APPLICATION FOR VIDEO GAME MACHINE

This application is based on Patent Application No. 2000-351912 filed Nov. 17, 2000 in Japan, the content of which is expressly incorporated herein by reference in its entirety.

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a method and apparatus for opening an electronic conference, and particularly to a method and apparatus for opening an electronic conference by means of a simple procedure from a video game machine.

2. Description of the Related Art

Video game machines with an Internet connection function can receive various services via servers of ISPs (Internet Service Providers). With these new services, for example, game software is distributed to video game machines and users can play battle games via the network. On the other hand, further new services can be provided by combining services relating to games with services such as electronic mail and conferences (hereafter referred to as "chats") which are conventionally provided on the Internet.

In a battle game, users playing the game via a network may be opponents or allies. If users who have come to know each other through a game have means for communication, they can exchange information on games to enjoy such games more. Further, if not only one-on-one battle games but also games that can be joined by many players are available, information exchanged based on chats are effective.

A problem with conventional video game machines, however, is that they have the Internet connecting function but no application program for electronic mail or chats, thus requiring a separate general-purpose computer to be used in order to send electronic mail or have chats.

Another problem is that opening a chat requires various procedures with an ISP, which are cumbersome both to a chat chairman and to guests.

SUMMARY OF THE INVENTION

It is an object of the present invention to provide a method and apparatus for opening an electronic conference which method and apparatus allow users to open and join a chat by means of a simple procedure from a video game machine.

To attain this object, a first aspect of the invention includes a method for opening an electronic conference by sending a request for an area set on a database to a server from a user's terminal, in order to hold the electronic conference using this area. The method includes creating and transmitting an opening request signal for setting the area to the server and receiving an opening response signal containing opening information indicating that the area has been set in the database based on the opening request signal. The method also includes creating an invitation signal containing the opening information contained in the opening response signal, and transmitting the invitation signal to users holding the electronic conference using the area.

The method may also include creating an access request signal containing the opening information contained in the opening response signal, in order to access the area of the database, and transmitting the access request signal to the server.

In addition, the opening information may contain an ID number for allowing the server to identify the area of the database, the ID number being added to the access request signal.

The method may further include obtaining the opening information contained in the invitation signal, creating an access request signal containing the opening information, in order to access the area of the database, and transmitting the access request signal to the server. Moreover, the opening information may contain an ID number for allowing the server to identify the area of the database, the ID number being added to the invitation signal and to the access request signal.

According to another aspect of the invention, the method further includes receiving an input of an opening message containing setup information for setting the area, and storing the opening message in a storage section. The method also includes adding the setup information stored in the storage section to the invitation signal.

The method may also include creating an access request signal containing the setup information stored in the storage section in order to access the area of the database and transmitting the access request signal to the server.

In addition, the method may include obtaining the setup information contained in the invitation signal, creating an access request signal containing the setup information, in order to access the area of the database, and transmitting the access request signal to the server. The setup information contains at least one of a name of the electronic conference or code number for accessing the area of the database.

The apparatus also includes opening an electronic conference by sending a request for an area set on a database to a server, in order to hold the electronic conference using this area. The apparatus includes an opening request signal transmitter that creates and transmits an opening request signal for setting the area to the server and a receiver that receives an opening response signal containing opening information indicating that the area has been set in the database based on the opening request signal. The apparatus also includes an invitation signal source that creates an invitation signal containing the opening information contained in the opening response signal received by the receiver, and an invitation signal transmitter that transmits the invitation signal created by the invitation signal source, to users holding the electronic conference using the area.

The apparatus may also include an access request signal source for creating an access request signal containing the opening information contained in the opening response signal received by the receiver, in order to access the area of the database, and an access request signal transmitter that transmits the access request signal to the server. The opening information may contain an ID number for allowing the server to identify the area of the database, the access request signal source adds the ID number to the access request signal.

According to another aspect of the present invention, the apparatus also includes an opening information retriever that obtains the opening information contained in the invitation signal, an access request signal source that creates an access request signal containing the opening information obtained by the opening information retriever, in order to access the area of the database, and an access request transmitter that transmits the access request signal to the server. The opening information may contain an ID number for allowing the server to identify the area of the database and the invitation signal source adds the ID number to the invitation signal. Moreover, that the access request signal source may add the ID number to the access request signal.

According to another aspect of the present invention, the apparatus further includes a message input device that

receive an input of an opening message containing setup information for setting the area, and a storage that store the opening message. The invitation signal creating source may add the setup information stored in the storage to the invitation signal.

The apparatus may also include an access request signal source that creates an access request signal containing the setup information stored in the storage in order to access the area of the database and an access request signal transmitter that transmits the access request signal to the server.

The apparatus may also include a setup information retriever that obtains the setup information contained in the invitation signal, an access request signal source that creates an access request signal containing the setup information obtained by the setup information retriever, in order to access the area of the database, and an access request signal transmitter that transmits the access request signal to the server. The setup information may contain at least a name of the electronic conference or code number for accessing the area of the database.

According to another embodiment, a recording medium is provided having a program recorded thereon for controlling an apparatus for opening an electronic conference by sending a request for an area set on a database to a server, in order to hold the electronic conference using this area. The recording medium is readable by a computer and stores a program for allowing the computer to execute creating and transmitting an opening request signal for setting the area to the server. The computer also receives an opening response signal containing opening information indicating that the area has been set in the database based on the opening request signal, creates an invitation signal containing the opening information contained in the opening response signal, and transmits the invitation signal, to users holding the electronic conference using the area.

According to another aspect, the computer creates an access request signal containing the opening information contained in the opening response signal, in order to access the area of the database, and transmits the access request signal to the server. The opening information may contain an ID number for allowing the server to identify the area of the database the ID number being added to the access request signal.

According to another aspect, the computer may obtains the opening information contained in the invitation signal, create an access request signal containing the opening information, in order to access the area of the database, and transmit the access request signal to the server. In this aspect, the opening information may contain an ID number for allowing the server to identify the area of the database. The computer then adds the ID number to the invitation signal, and adds the ID number to the access request signal.

The computer may also receive an input of an opening message containing setup information for setting the area, store the opening message in a storage section and add the setup information stored in the storage section to the invitation signal.

The computer may also create an access request signal containing the setup information stored in the storage section in order to access the area of the database and transmit the access request signal to the server.

Moreover, the computer may obtain the setup information contained in the invitation signal, create an access request signal containing the setup obtained information, in order to access the area of the database, and transmitting the access request signal to the server. The setup information may

contain at least a name of the electronic conference or code number for accessing the area of the database.

According to another embodiment, a program is provided for controlling an apparatus for opening an electronic conference by sending a request for an area set on a database to a server, in order to hold the electronic conference using this area. The program allows the computer to create and transmit an opening request signal for setting the area to the server, receive an opening response signal containing opening information indicating that the area has been set in the database based on the opening request signal, create an invitation signal containing the opening information contained in the opening response signal, and transmit the invitation signal, to users holding the electronic conference using the area.

As described above, the present invention allows users to open and join a chat with a simple procedure from a video game machine.

The above and other objects, effects, features and advantages of the present invention will become more apparent from the following description of embodiments thereof taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 is a schematic view showing an example of a system configuration for providing an electronic conference opening according to an aspect of the present invention;

FIG. 2 is a sequence diagram showing an example of the electronic conference opening according to an aspect of the present invention;

FIG. 3 is a view showing an example of a message for opening a chat in the electronic conference opening according to an aspect of the present invention;

FIGS. 4A and 4B are views showing examples of a signal format for opening a chat in the electronic conference opening according to the present invention;

FIG. 5 is a view showing an example of a chat room setup list screen in the electronic conference opening according to the present invention;

FIG. 6 is a view showing an example of a data signal format for entering a chat in the electronic conference opening according to the present invention;

FIG. 7 is a view showing an example of a message for invitation to a chat in the electronic conference opening according to the present invention;

FIG. 8 is a view showing an example of a data signal format for invitation to a chat in the electronic conference opening according to the present invention; and

FIG. 9 is a block diagram showing an example of a video game machine having the electronic conference opening mounted therein.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Embodiments of the present invention will be described below in detail with reference to the drawings.

FIG. 1 shows an example of a system configuration for providing an electronic conference opening according to the present invention. The Internet 101 has a server of an ISP, video game machine 103a and 103b, and general-purpose components 104a and 104b connected thereto.

The ISP servers 102 include an authentication server 111 for managing accounts to authenticate users, a content server 112 for providing services for allowing users to listen to and

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view contents such as sounds or videos, a message server **113** for providing environments for chats or messengers, a mail server **114** for providing electronic mail services, a profile server **115** for managing users' profiles, and game servers **116a** and **116b** for providing game environments. All these servers are connected to the ISP server via a LAN **117**.

With this configuration, a user accesses the authentication server **111** from the video game machine **103a** or **103b** or the general-purpose computer **104a** or **104b** via the Internet **101**, to have the user authenticated. The servers **102** transmit a menu screen to the authenticated user. The user selects one of services displayed on the menu screen to connect the video game machine **103a** or **103b** or the general-purpose computer **104a** or **104b** to one of the groups of servers depending on the service, so that the user can receive the service.

FIG. 2 shows an example of the electronic conference opening of the present invention. A user who desires to open a chat, here the chairman, creates a message **201** for opening a chat, on the video game machine **103a**. When this message is sent, a chat opening request signal **202** is transmitted to the message server **113**. The latter transmits a setup signal **203** for opening the desired chat room to a database in the group of servers and returns a chat opening response signal **204** to the user. The opening of a chat refers to an operation performed by the message server **113** to set a specified area in the database and grant accesses only to particular users, that is, chat guests.

Upon receiving the chat opening response signal **204**, the user's video game machine **103a** displays a chat room setup list screen **205** showing how the chat room is set and prompting the user to enter the chat room newly set by the user. The user can enter (join) the chat room by transmitting an enter room signal **206** to the database. "an enter room signal" is a synonym of "an access request signal". The entry to a chat room refers to an operation of having the user's access checked by the group of message servers **113** to access a predetermined area of the database.

Further, a message **207** for invitation to the chat which is transmitted to the chat guests is displayed based on the created message **201**, and an invitation signal **208** is transmitted to all the guests. The video game machine **103b** of an expected guest receiving the invitation signal **208** displays a screen **209** prompting the guest to enter the chat room, and the expected guest can join the chat by transmitting an enter room signal **210** to the database. At this time, an invitation answer signal **211** indicating that the guest accepts the chairman's invitation is transmitted from the expected guest to the chairman. The invitation to a chat refers to an operation of granting a guest access to an opened chat room and prompting the guest to join the chat.

FIG. 3 shows an example of a message for opening a chat in the electronic conference opening according to the present invention. This corresponds to the chat opening message **201** shown in FIG. 2 and is created and transmitted to the message server **113** by the chairman. The contents of the chat opening message **201** request the message server **113** to open the chat room and to transmit the invitation message to the expected guests.

The chat opening message **201** has a category **301** indicative of a type of message, a message title **302** and a text box **303** that are required to transmit the invitation message to the expected guests. The message **201** also has input fields for a chat name **304** and a chat password **305** which are required to request the group of message servers **113** to open the chat room. "a chat password" is a synonym of "a code number".

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FIGS. 4A and 4B show examples of a chat opening data signal format in the electronic conference opening of the present invention. FIG. 4A corresponds to the chat opening request signal **202** shown in FIG. 2, and FIG. 4B corresponds to the chat opening response signal **204** shown in FIG. 2.

When the chairman creates the chat opening message **201** shown in FIG. 3 and gives an instruction to transmit this message, the video game machine **103a** creates and transmits the chat opening request signal **202** to the message server **113**. The video game machine **103a** sets a user name **401**, a user ID **402**, and a user password **403** of the chairman which have already been registered, obtains a chat name **412** and a chat password from the contents of the chat opening message **201**, and generates and transmits a "chat opening request" command **411**.

Upon receiving the chat opening request signal **202**, the message server **113** opens a chat room in the database, that is, secures a predetermined area, and determines a chat ID. Upon finishing the opening operation, the message server **113** creates and transmits the chat opening response signal **204** to the video game machine **103a**. The contents of the chat opening response signal **204** include the user name **401**, the user ID **402**, the chat name **412** and chat password **413** derived from the chat opening response **421**, which correspond to the contents of the chat opening request signal **202**, as well as the chat ID **422** and the message **423**. The chat ID **422** corresponds to the chat name **412** and the chat password **413** corresponds to an access for entering the chat room, i.e., accessing the predetermined area of the database.

FIG. 5 shows an example of a chat room setup list screen in the electronic conference opening according to the present invention. The chat room setup list screen **205** displays a list **501** showing currently open chat rooms. The list also displays the chat room opened by the chairman. Further, a selection screen **502** is also displayed, which prompts the chairman to enter the chat room. When the chairman selects "Enter Room", the video game machine **103a** ends all the other applications, activates a chat application, and enters the chat room. When the chairman selects "See you later", the database of the group of message servers **113** leave the chat room set up.

FIG. 6 shows an example of a data signal format for entering a chat room in the electronic conference opening according to the present invention. This signal data format corresponds to the enter room signals **206** and **210** shown in FIG. 2. Here, the enter room signal **206** will be explained. When the chairman selects "Enter Room" in the selection screen **502** shown in FIG. 5, the video game machine **103a** creates and transmits the enter room signal **206** to the database of the message server **113**. The video game machine **103a** sets the user name **401**, user ID **402**, and user password **403** of the chairman which have already been registered. An "Enter Room" command **601** is generated by obtaining the chat name **412** and the chat password **413** from the contents of the chat opening message **201** and obtaining the chat ID **422** from the contents of the chat opening response signal **204** shown in FIG. 4B.

FIG. 7 shows an example of a message for invitation to a chat in the electronic conference opening of the present invention. This corresponds to the invitation message **207** shown in FIG. 2 and is created by the video game machine **103a** based on the chat opening message **201** created by the chairman. The invitation message **207** differs from the chat opening message **201** shown in FIG. 3 in that the chat name **304** input through the chat opening message **201** is displayed

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as a room name **701** in the invitation message **207**. The chat password **305** will be described later.

FIG. **8** shows an example of a data signal format for invitation to a chat in the electronic conference opening according to the present invention. This corresponds to the invitation message **208** shown in FIG. **2** and is created by the video game machine **103a** based on the invitation message **207**. The video game machine **103a** sets the user name **401** and user ID **402** of the chairman which have already been registered. An "invitation" command **801** is generated by obtaining the chat name **304** and the chat password **305** from the contents of the chat opening message **201** and obtaining the chat ID **422** from the contents of the chat opening response signal **204** shown in FIG. **4B**.

The chat password **413** is set by obtaining it from the chat password **305** of the chat opening message **201** but is not displayed in the invitation message **207** shown in FIG. **7**. The chat ID **422** is also not displayed. Upon receiving the invitation message **207**, the video game machine **103b** displays the screen **209** prompting the guest to enter the chat room and creates the Enter Room signal **210** shown in FIG. **2**. The screen **209** prompting the guest to enter the chat room also does not display the chat password **413** or the chat ID **422**. That is, the chat password **413** and the chat ID **422** are recognized by the video game machines **103a** and **104b** during the exchange of the signals but are not communicated to the guests through the screen. When cumbersome procedures required to set a chat are thus omitted, users can open and join a chat by means of a simple procedure from a video game machine.

FIG. **9** shows an example of a video game machine having the electronic conference opening ability according to the present invention. The video game machine **103** has a CPU **911** for controlling the entire machine, a ROM **912** storing game programs and a program for the electronic conference opening according to the present invention, a RAM **913** as a temporary storage area, and an Application Specific IC (ASIC) **914** for processing images, which are connected together via a bus **915**.

A CD-ROM drive **916** for loading the game programs and the program for the electronic conference opening according to the present invention, from a CD-ROM storing these program is connected to the bus **915**, a serial interface **917** connected to the game controller **901**, a video interface **918** connected to a TV monitor **902**, and a communications interface **919** for connecting to the Internet **101** are also connected to the bus **915**.

Of course, the present invention is achieved by causing the video game machine or general-purpose computer to read and execute software program code from the storage medium storing the program code, the software implementing the electronic conference opening of the present invention. The storage medium for supplying the program code may include, for example, a floppy disk, a hard disk, a photo-electromagnetic disk, an optical disk, a CD-ROM, a CD-R, a magnetic tape, a non-volatile memory card, and a ROM.

The electronic conference opening of the present invention is also applicable not only to standalone general-purpose computers but also to a client server system includes a group of computers.

The present invention has been described in detail with respect to preferred embodiments, and it will now be apparent from the foregoing to those skilled in the art that changes and modifications may be made without departing from the invention in its broader aspects. It is the intention, therefore,

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in the appended claims to cover all such changes and modifications that fall within the true spirit of the invention.

What is claimed is:

1. A method for opening an electronic conference by sending a request for an area to be set on a database, the request being sent to a server from a user's terminal, and the request being sent in order to hold said electronic conference using said area, the method comprising:

creating and transmitting to said server an opening request signal for setting said area;

receiving an opening response signal comprising opening information indicating that said area has been set in said database based on said opening request signal;

creating an invitation signal comprising said opening information contained in the opening response signal; and

transmitting said invitation signal to users being invited to hold said electronic conference using said area.

2. The method for opening an electronic conference according to claim 1, further comprising, creating an access request signal comprising said opening information contained in said opening response signal, in order to access said area of said database; and

transmitting said access request signal to said server.

3. The method for opening an electronic conference according to claim 2, wherein said opening information comprises an ID for allowing said server to identify said area of said database, and the access request signal comprises said ID.

4. The method for opening an electronic conference according to claim 1, further comprising:

obtaining said opening information contained in said invitation signal;

creating an access request signal comprising said opening information, in order to access said area of said database; and

transmitting said access request signal to said server.

5. The method for opening an electronic conference according to claim 4, wherein said opening information comprises an ID for allowing said server to identify said area of said database,

wherein the creating the invitation signal further comprises adding said ID to said invitation signal and

wherein the creating the access signal further comprises adding said ID to said access request signal.

6. The method for opening an electronic conference according to claim 1, further comprising:

receiving an input of an opening message comprising setup information for setting said area;

storing said opening message in a storage section; and

adding said setup information stored in said storage section to said invitation signal.

7. The method for opening an electronic conference according to claim 6, wherein said setup information comprises at least one of a name of said electronic conference and a code number for accessing said area of said database.

8. The method for opening an electronic conference according to claim 6, further comprising:

creating an access request signal comprising said setup information stored in said storage section in order to access said area of said database; and

transmitting said access request signal to said server.

9. The method for opening an electronic conference according to claim 8, wherein said setup information com-

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prises at least one of a name of said electronic conference and a code number for accessing said area of said database.

10. The method for opening an electronic conference according to claim **6**, further comprising:

obtaining said setup information contained in said invitation signal;

creating an access request signal comprising said setup information, in order to access said area of said database; and

transmitting said access request signal to said server.

11. The method for opening an electronic conference according to claim **10**, wherein said setup information comprises at least one of a name of said electronic conference and a code number for accessing said area of said database.

12. An apparatus for opening an electronic conference by sending a request for an area to be set on a database to a server, the request being sent in order to hold said electronic conference using this area, the apparatus comprising:

an opening request signal transmitter that creates and transmits an opening request signal for setting said area to said server,

a receiver that receives an opening response signal comprising opening information indicating that said area has been set in said database based on said opening request signal;

an invitation signal source that creates an invitation signal comprising said opening information contained in said opening request signal received by said receiver; and

an invitation signal transmitter that transmits said invitation signal created by said invitation signal source, to users being invited to hold said electronic conference using said area.

13. The apparatus for opening an electronic conference according to claim **12**, further comprising an access request signal source that creates an access request signal comprising said opening information contained in said opening response signal received by said receiver, in order to access said area of said database; and

an access request signal transmitter that transmits said access request signal to said server.

14. The apparatus for opening an electronic conference according to claim **13**, wherein said opening information comprises an ID for allowing said server to identify said area of said database and said access request signal source adds said ID to said access request signal.

15. The apparatus for opening an electronic conference according to claim **12**, further comprising an opening information retriever that obtains said opening information contained in said invitation signal;

an access request signal source that creates an access request signal comprising said opening information obtained by said opening information retriever, in order to access said area of said database; and

an access request signal transmitter that transmits said access request signal to said server.

16. The apparatus for opening an electronic conference according to claim **15**, wherein said opening information comprises an ID for allowing said server to identify said area of said database, and

wherein said invitation signal source adds said ID to said invitation signal and said access request signal source adds said ID to said access request signal.

17. The apparatus for opening an electronic conference according to claim **12**, further comprising:

a message input device that receives an input of an opening message comprising setup information for setting said area, and

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a storage that stores said opening message,

wherein said invitation signal source adds said setup information stored in said storage to said invitation signal.

18. The apparatus for opening an electronic conference according to claim **17**, wherein said setup information comprises at least one of a name of said electronic conference and a code number for accessing said area of said database.

19. The apparatus for opening an electronic conference according to claim **17**, further comprising:

an access request signal source for creating an access request signal comprising said setup information stored in said storage in order to access said area of said database; and

an access request signal transmitter that transmits said access request signal to said server.

20. The apparatus for opening an electronic conference according to claim **19**, wherein said setup information comprises at least one of a name of said electronic conference and a code number for accessing said area of said database.

21. The apparatus for opening an electronic conference according to claim **17**, further comprising a setup information retriever that obtains said setup information contained in said invitation signal;

an access request signal source that creates an access request signal comprising said setup information obtained by said setup information retriever, in order to access said area of said database; and

an access request signal transmitter that transmits said access request signal to said server.

22. The apparatus for opening an electronic conference according to claim **17**, wherein said setup information comprises at least one of a name of said electronic conference and a code number for accessing said area of said database.

23. A recording medium having a program recorded thereon for controlling an apparatus for opening an electronic conference by sending a request for an area to be set on a database to a server, the request being sent in order to hold said electronic conference using the area, the recording medium being readable by a computer and storing a program for allowing the computer to execute:

creating and transmitting to said server an opening request signal for setting said area;

receiving an opening response signal comprising opening information indicating that said area has been set in said database based on said opening request signal;

creating an invitation signal comprising said opening information contained in said opening response signal; and

transmitting said invitation signal, to guests invited to said electronic conference using said area.

24. The recording medium according to **23**, further comprising:

creating an access request signal comprising said opening information contained in said opening response signal, in order to access said area of said database; and

transmitting said access request signal to said server.

25. The recording medium according to **24**, wherein said opening information comprises an ID for allowing said server to identify said area of said database and said ID is added to said access request signal.

26. The recording medium according to **23**, further comprising:

obtaining said opening information contained in said invitation signal;

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creating an access request signal comprising said opening information, in order to access said area of said database; and

transmitting said access request signal to said server.

27. The recording medium according to 26, wherein said opening information comprises an ID for allowing said server to identify said area of said database, and

wherein said ID is added to said invitation signal, and adding said ID is added to said access request signal.

28. The recording medium according to 23, further comprising:

receiving an input of an opening message comprising setup information for setting said area;

storing said opening message in a storage section; and

adding said setup information stored in said storage section to said invitation signal.

29. The recording medium according to 28, wherein said setup information comprises at least one of a name of said electronic conference and a code number for accessing said area of said database.

30. The recording medium according to 28, further comprising:

creating an access request signal comprising said setup information stored in said storage section in order to access said area of said database; and

transmitting said access request signal to said server.

31. The recording medium according to 30, wherein said setup information comprises at least one of a name of said electronic conference and a code number for accessing said area of said database.

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32. The recording medium according to 28, further comprising:

obtaining said setup information contained in said invitation signal;

creating an access request signal comprising said setup information, in order to access said area of said database; and

transmitting said access request signal to said server.

33. The recording medium according to 32, wherein said setup information comprises at least one of a name of said electronic conference and a code number for accessing said area of said database.

34. A program for controlling an apparatus for opening an electronic conference by sending a request for an area set on a database to a server, the request being sent in order to hold said electronic conference using this area, the program allowing said computer to execute:

creating and transmitting to said server an opening request signal for setting said area;

receiving an opening response signal comprising opening information indicating that said area has been set in said database based on said opening request signal;

creating an invitation signal comprising said opening information contained in said opening response signal; and

transmitting said invitation signal, to users holding said electronic conference using said area.

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